

Amendments to the Claims:

Please cancel claims 1, 2, 6, 10, 16, 22, 26, 29, 35-37, 40, 41, 43, 44, 49-55, 66, 73, 81, 101 and 102. Please amend claims 3-5, 7-9, 11-15, 17-21, 23-25, 27, 28, 30-34, 38, 39, 42, 45-48, 56-65, 67-72, 74-80, 82-88, 94 and 98 as set forth below. Please add new claims 103-105 as set forth below. Following is a complete listing of the claims pending in the application, as amended:

1. (Cancelled)

2. (Cancelled)

3. (Currently Amended) The patient warming device~~heating element~~ of claim ~~4-68~~ wherein the flexible substrate includes a nylon weave, and wherein the plurality of conductive strands are interwoven with the nylon weave.

4. (Currently Amended) The patient warming device~~heating element~~ of claim ~~684~~ wherein the flexible substrate includes a fabric material, wherein each of the conductive strands includes a non-conductive core and metallic plating, and wherein the plurality of conductive strands are interwoven with the fabric material.

5. (Currently Amended) The patient warming device~~heating element~~ of claim ~~684~~ wherein the flexible substrate includes a nylon weave, wherein each of the conductive strands includes a nylon core with a silver portion, and wherein the plurality of conductive strands are interwoven with the nylon weave.

6. (Cancelled)

7. (Currently Amended) The patient warming device~~heating element~~ of claim ~~4-68~~ wherein the conductive portion of each of the conductive strands includes metal.

8. (Currently Amended) The patient warming device~~heating element~~ of claim 4-68 wherein each of the conductive strands includes a nylon core with metallic plating.

9. (Currently Amended) The patient warming device~~heating element~~ of claim 4-68 wherein each of the conductive strands includes a nylon core with silver plating.

10. (Cancelled)

11. (Currently Amended) The patient warming device~~heating element~~ of claim 4-68 wherein the conductive portion of each of the conductive strands includes silver having a thickness of about 10 microns or less.

12. (Currently Amended) The patient warming device~~heating element~~ of claim 4-68 wherein the conductive portion of each of the conductive strands includes silver having a thickness of about 5 microns or less.

13. (Currently Amended) The patient warming device~~heating element~~ of claim 4-68 wherein the plurality of conductive strands forms a non-linear pattern on the flexible substrate.

14. (Currently Amended) The patient warming device~~heating element~~ of claim 4-68 wherein the plurality of conductive strands forms a repeating geometric pattern on the flexible substrate.

15. (Currently Amended) The patient warming device~~heating element~~ of claim 468, further comprising a plurality of non-conductive strands, wherein each of the non-conductive strands is entwined with at least one of the conductive strands to form a plurality of conductive yarns supported by the flexible substrate.

16. (Cancelled)

17. (Currently Amended) The patient warming device~~heating element~~ of claim ~~483~~, further comprising:

a first conductive lead supported by the flexible substrate, the first conductive lead coupled to the ~~plurality of~~ at least one conductive strands ~~path~~ and configured to be biased at a first electrical potential; and

a second conductive lead supported by the flexible substrate and spaced apart from the first conductive lead, the second conductive lead coupled to the ~~at least one~~ plurality of conductive strands ~~path~~ and configured to be biased at a second electrical potential to cause electrical current to flow through each of the ~~at least one~~ conductive strands ~~path~~ and generate heat.

18. (Currently Amended) The patient warming device~~heating element~~ of claim ~~4-68~~ wherein the core portion of each of the conductive strands includes nylon yarn of about 100 denier or less.

19. (Currently Amended) The patient warming device~~heating element~~ of claim ~~4-68~~ wherein the core portion of each of the conductive strands includes nylon yarn of about 33 denier or less.

20. (Currently Amended) The patient warming device~~heating element~~ of claim ~~468~~, further comprising a plurality of polyester strands, wherein each of the polyester strands is entwined with at least one of the conductive strands to form a plurality of conductive yarns, wherein the plurality of conductive yarns are interwoven with the flexible substrate.

21. (Currently Amended) The patient warming device~~heating element~~ of claim ~~468~~, further comprising a plurality of polyester strands of about 150 denier or less, wherein each of the polyester strands is entwined with at least one of the conductive strands to form a plurality of conductive yarns, wherein the plurality of conductive yarns are interwoven with the flexible substrate.

22. (Cancelled)

23. (Currently Amended) The patient warming device~~heating element~~ of claim 4-68, wherein the each of the conductive strands includes a nylon core of about 33 denier having silver plating with a thickness of about 5 microns or less, and further comprising a plurality of polyester strands of about 150 denier or less, wherein each of the polyester strands is entwined with at least one of the conductive strands to form a plurality of conductive yarns, wherein the plurality of conductive yarns are interwoven with the flexible substrate.

24. (Currently Amended) The patient warming device~~heating element~~ of claim 4-68 further comprising a plurality of non-conductive strands, wherein each of the non-conductive strands is entwined with at least two of the conductive strands to form a plurality of conductive yarns supported by the flexible substrate.

25. (Currently Amended) The patient warming device~~heating element~~ of claim 4-68 wherein each of the conductive strands includes a nylon core with silver plating, and further comprising a plurality of non-conductive strands, wherein each of the non-conductive strands are entwined with at least two of the conductive strands to form a plurality of conductive yarns supported by the flexible substrate.

26. (Cancelled)

27. (Currently Amended) The patient warming device~~heating element~~ of claim 4-68 wherein the conductive strands are at least generally transparent to x-ray imaging.

28. (Currently Amended) The patient warming device~~heating element~~ of claim 4-68 wherein the conductive strands are at least generally transparent to x-ray imaging in an x-ray field having a strength of about 100 Roentgens or less.

29. (Cancelled)

30. (Currently Amended) The patient warming device~~heating element~~ of claim ~~29-83~~ wherein the flexible substrate includes a fiber weave, and wherein the ~~plurality at least one~~ conductive of strands are path is woven into the fiber weave.

31. (Currently Amended) The patient warming device~~heating element~~ of claim 30 wherein the fiber weave includes a cloth material.

32. (Currently Amended) The patient warming device~~heating element~~ of claim ~~29-83~~ wherein the flexible substrate includes a nylon weave, and wherein the ~~at least one~~ plurality of conductive strands are path is interwoven with the nylon weave.

33. (Currently Amended) The patient warming device~~heating element~~ of claim ~~29-83~~ wherein ~~each of the~~ at least one conductive strands path includes a silver portion having a thickness of about 100 microns or less.

34. (Currently Amended) The patient warming device~~heating element~~ of claim ~~29-83~~ wherein the ~~plurality of at least one~~ conductive strands path forms a non-linear pattern on the flexible substrate.

35-37. (Cancelled)

38. (Currently Amended) The patient warming device~~heating element~~ of claim ~~29-83~~ wherein the at least one conductive strand path is at least generally radiolucent.

39. (Currently Amended) The patient warming device~~heating element~~ of claim ~~29-83~~ wherein the at least one conductive strand path is at least generally transparent to x-ray imaging in an x-ray field having a strength of about 100 Roentgens or less.

40. (Cancelled)

41. (Cancelled)

42. (Currently Amended) The patient warming device~~heating element~~ of claim 40-83 wherein the at least one conductive path includes a plurality of conductive paths, wherein each of the plurality of conductive paths defines a repeating geometric pattern extending across at least a portion the flexible substrate.

43. (Cancelled)

44. (Cancelled)

45. (Currently Amended) The ~~heating element~~patient warming device of claim 40-83 wherein the at least one conductive path is a first conductive path defining a non-linear pattern, and further comprising a plurality of at least generally linear conductive paths extending across at least a portion of the flexible substrate, wherein the plurality of at least generally linear conductive paths are configured to generate heat by conducting electricity, and wherein the plurality of at least generally linear conductive paths intersect the first conductive path on the flexible substrate to form a conductive intersection.

46. (Currently Amended) The patient warming device~~heating element~~ of claim 40-83 wherein the at least one conductive path includes at least a portion of a conductive strand supported by the flexible substrate, the conductive strand having:
a core portion; and
a conductive portion carried by the core portion.

47. (Currently Amended) The patient warming device~~heating element~~ of claim 40-83 wherein the at least one conductive path includes at least a portion of a conductive strand supported by the flexible substrate, the conductive strand having:
a non-conductive core portion; and

a metallic portion carried by the core portion.

48. (Currently Amended) The patient warming device~~heating element~~ of claim ~~40-83~~ wherein the at least one conductive path includes a plurality of conductive strands supported by the flexible substrate.

49-55. (Cancelled)

56. (Currently Amended) The patient warming device of claim ~~6855~~ wherein the flexible substrate includes a fabric material, and wherein the plurality conductive of strands are woven into the fabric material.

57. (Currently Amended) The patient warming device of claim ~~6855~~ wherein the flexible substrate includes a fiber weave, wherein each of the conductive strands includes a nylon core with metallic plating, and wherein the plurality of conductive strands are interwoven with the fiber weave.

58. (Currently Amended) The patient warming device of claim ~~6855~~ wherein the flexible substrate includes a fiber weave, wherein each of the conductive strands includes a silver portion, and wherein the plurality of conductive strands are interwoven with the fiber weave.

59. (Currently Amended) The patient warming device of claim ~~6855~~ wherein the core portion of each of the conductive strands is at least generally non-conductive.

60. (Currently Amended) The patient warming device of claim ~~6855~~ wherein the conductive portion of each of the conductive strands includes silver.

61. (Currently Amended) The patient warming device of claim ~~6855~~ wherein the conductive portion of each of the conductive strands includes silver having a thickness of about 100 microns or less.

62. (Currently Amended) The patient warming device of claim 6855, wherein each of the conductive strands includes a nylon core of about 33 denier or less having silver plating with a thickness of about 5 microns or less.

63. (Currently Amended) The patient warming device of claim 6855, further comprising a plurality of non-conductive strands, wherein each of the non-conductive strands is entwined with at least one of the conductive strands to form a plurality of conductive yarns, and wherein the plurality of conductive yarns are interwoven with the flexible substrate.

64. (Currently Amended) The patient warming device of claim 6855, further comprising:

a first conductive lead supported by the flexible substrate, the first conductive lead coupled to the plurality of conductive strands and configured to be biased at a first electrical potential; and

a second conductive lead supported by the flexible substrate and spaced apart from the first conductive lead, the second conductive lead coupled to the plurality of conductive strands and configured to be biased at a second electrical potential to cause electrical current to flow through each of the conductive strands and generate heat.

65. (Currently Amended) The patient warming device of claim 6855 wherein the conductive strands are at least generally radiolucent.

66. (Cancelled)

67. (Currently Amended) The patient warming device of claim 6855 ~~further comprising an optical temperature sensing device positioned at least proximate to the conductive strands and configured to respond to changes in temperature of the warming device~~, wherein the optical temperature sensing device is at least generally transparent to x-rays.

68. (Currently Amended) ~~The patient warming device of claim 55 further comprising~~A patient warming device usable to warm a person, the patient warming device comprising:

a support portion configured to support at least part of the person;

a flexible substrate positioned at least proximate to the support portion;

a plurality of conductive strands supported by the flexible substrate, each of the conductive strands having a core portion and a conductive portion carried by the core portion, wherein the conductive strands are configured to generate heat to warm the person when the person is positioned at least partially on the support portion; and

an optical temperature sensing device positioned at least proximate to the conductive strands and configured to respond to changes in temperature of the warming device, wherein the optical temperature sensing device includes a thermal chromatic liquid crystal.

69. (Currently Amended) The patient warming device of claim ~~68~~55 wherein the support portion includes a compressible foam portion that at least generally overlays the flexible substrate.

70. (Currently Amended) The patient warming device of claim ~~68~~55 wherein the support portion includes a first foam pad disposed adjacent to a first surface of the flexible substrate, and further comprising a second foam pad disposed adjacent to a second surface of the flexible substrate opposite the first surface of the flexible substrate.

71. (Currently Amended) The patient warming device of claim ~~68~~55 wherein the support portion includes an upper foam pad disposed adjacent to an upper surface of the flexible substrate, the upper foam pad having a thickness of about 1.0 inch or less.

72. (Currently Amended) The patient warming device of claim ~~68~~55 wherein the support portion includes an upper foam pad disposed adjacent to an upper surface

of the flexible substrate, the upper foam pad having a thickness of about 0.5 inch or less.

73. (Cancelled)

74. (Currently Amended) The patient warming device of claim ~~73-83~~ wherein the at least one conductive path defines a repeating geometric pattern extending across at least a portion of the flexible substrate.

75. (Currently Amended) The patient warming device of claim ~~73-83~~ wherein the at least one conductive path defines a repeating Greek key pattern extending across at least a portion of the flexible substrate.

76. (Currently Amended) The patient warming device of claim ~~73-83~~ wherein the at least one conductive path includes a first conductive path defining a non-linear pattern, and further comprising at least a second conductive path defining an at least generally linear pattern extending across at least a portion of the flexible substrate, wherein the second conductive path is configured to generate heat by conducting electricity.

77. (Currently Amended) The patient warming device of claim ~~73-83~~ wherein the at least one conductive path includes a first conductive path defining a non-linear pattern, and further comprising at least a second conductive path defining an at least generally linear pattern extending across at least a portion of the flexible substrate, wherein the second conductive path is configured to generate heat by conducting electricity, and wherein the second conductive path intersects the first conductive path at at least one location on the flexible substrate.

78. (Currently Amended) The patient warming device of claim ~~73-83~~ wherein the flexible substrate includes a cloth material, and wherein the at least one conductive path includes a plurality of conductive strands interwoven with the cloth material.

79. (Currently Amended) The patient warming device of claim ~~73-83~~ wherein the flexible substrate includes a cloth material, wherein the at least one conductive path includes a plurality of silver strands interwoven with the cloth material.

80. (Currently Amended) The patient warming device of claim ~~73-83~~ wherein the conductive paths are at least generally transparent to x-rays.

81. (Cancelled)

82. (Currently Amended) The patient warming device of claim ~~73-83~~ further ~~comprising an optical temperature sensing device positioned at least proximate to the at least one conductive path and configured to respond to changes in temperature of the warming device~~, wherein the optical temperature sensing device is at least generally transparent to x-rays.

83. (Currently Amended) ~~The patient warming device of claim 73 further comprising~~A patient warming device usable to warm a person, the patient warming device comprising:

a support portion configured to support at least part of the person;

a flexible substrate positioned at least proximate to the support portion;

at least one conductive path defining a non-linear pattern extending across at least a portion of the flexible substrate, wherein the conductive path is configured to generate heat to warm the person when the person is positioned at least partially on the support portion; and

an optical temperature sensing device positioned at least proximate to the at least one conductive path and configured to respond to changes in temperature of the warming device, wherein the optical temperature sensing device includes a thermal chromatic liquid crystal.

84. (Currently Amended) The patient warming device of claim ~~73-83~~ wherein the support portion includes a compressible foam portion that at least generally overlays the flexible substrate.

85. (Currently Amended) The patient warming device of claim ~~73~~83 wherein the support portion includes an upper foam pad disposed adjacent to an upper surface of the flexible substrate, the upper foam pad having a thickness of about 1.0 inch or less.

86. (Currently Amended) The patient warming device of claim ~~73~~83 wherein the support portion includes a plurality of individual foam particles.

87. (Currently Amended) A personal warming device usable to warm a patient, the personal warming device comprising:

a flexible heating element; ~~and~~

a compressible layer positioned proximate to the heating element and configured to support at least a portion of the patient, ~~the compressible layer having a thickness of about 0.5 inch or less,~~ wherein the heating element is configured to generate heat by conducting electricity when a patient is positioned on the compressible layer; and

an optical temperature sensing device positioned at least proximate to the heating element and configured to respond to changes in temperature of the warming device, wherein the optical temperature sensing device includes a thermal chromatic liquid crystal.

88. (Currently Amended) A patient warming device usable to warm a person, the patient warming device comprising:

a contoured support portion having at least one contoured surface configured to support at least part of the person; ~~and~~

a heating element positioned at least proximate to the contoured support portion, the heating element including:

a flexible substrate; and

a plurality of conductive strands supported by the flexible substrate, each of the conductive strands having a core portion and a conductive portion carried by the core portion, wherein each of the conductive strands is configured to generate heat by conducting electricity; and

an optical temperature sensing device positioned at least proximate to the heating element and configured to respond to changes in temperature of the warming device, wherein the optical temperature sensing device includes a thermal chromatic liquid crystal.

89. (Original) The patient warming device of claim 88 wherein the flexible substrate includes a cloth material, and wherein the plurality of conductive strands are interwoven with the cloth material.

90. (Original) The patient warming device of claim 88 wherein the flexible substrate includes a cloth material, wherein each of the conductive strands includes metallic plating, and wherein the plurality of conductive strands are interwoven with the cloth material.

91. (Original) The patient warming device of claim 88 wherein the core portion of each of the conductive strands is at least generally non-conductive.

92. (Original) The patient warming device of claim 88 wherein the plurality of conductive strands define a non-linear pattern extending across at least a portion of the flexible substrate.

93. (Original) The patient warming device of claim 92 wherein the non-linear pattern includes a repeating geometric pattern extending across at least a portion of the flexible substrate.

94. (Currently Amended) A patient warming device usable to warm a person, the patient warming device comprising:

a compressible fill layer ~~having a thickness of about 0.5 inch or less;~~

a flexible substrate positioned at least proximate to the fill layer;

at least one conductive path ~~defining a repeating geometric pattern extending across at least a portion of the flexible substrate, wherein the conductive path is configured to generate heat by conducting electricity; and~~

a form-fitting cover enclosing the fill layer, the flexible substrate, and the conductive path; and
an optical temperature sensing device positioned at least proximate to the conductive path and configured to respond to changes in temperature of the warming device, wherein the optical temperature sensing device includes a thermal chromatic liquid crystal.

95. (Original) The patient warming device of claim 94 wherein the at least one conductive path defines a repeating Greek key pattern extending across at least a portion of the flexible substrate.

96. (Original) The patient warming device of claim 94 wherein the flexible substrate includes a cloth material, and wherein the at least one conductive path includes a plurality of conductive strands interwoven with the cloth material.

97. (Original) The patient warming device of claim 94 wherein the conductive paths are at least generally transparent to x-rays.

98. (Currently Amended) The patient warming device of claim 94 ~~further comprising a temperature sensing device positioned at least proximate to the at least one conductive path and configured to respond to changes in temperature of the warming device,~~ wherein the temperature sensing device is at least generally transparent to x-rays.

99. (Original) The patient warming device of claim 94 wherein the fill layer includes a compressible foam portion that at least generally overlays the flexible substrate.

100. (Original) The patient warming device of claim 94, further comprising one or more magnets positioned within the cover at least proximate to the fill layer.

101. (Cancelled)

102. (Cancelled)

103. (New) The patient warming device of claim 83 wherein the at least one conductive path includes a conductive ink applied to the flexible substrate.

104. (New) The patient warming device of claim 83 wherein the at least one conductive path includes a conductive carbon ink applied to the flexible substrate.

105. (New) The patient warming device of claim 83 wherein the at least one conductive path includes a conductive film applied to the flexible substrate.